



SEQUENCE LISTING

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Sprankle, Kelly

<120> Peptide Nucleic Acid Conjugates

<130> ISIS2112

<140> 08/817,067

<141> 1997-04-04

<150> PCT/US95/12931

<151> 1995-10-06

<150> USSN 08/319,411

<151> 1994-10-06

<150> 08/088,658

<151> 1993-07-02

<150> 08/088,661

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<150> 08/275,951

<151> 1994-07-15

<150> 986/91

<151> 1991-05-24

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<150> 510/92

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<170> PatentIn Ver. 2.1

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on the 2-aminoethyl portion of the monomer

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on the 2-aminoethyl portion of the monomer

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on the 2-aminoethyl portion of the monomer

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of the serine portion of the monomer

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of the serine portion of the monomer

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of the serine portion of the monomer

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<222> (18)
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<220>

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<222> (18)

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linking group to the hydroxymethyl group at the
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PNA

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<222> (18)

<223> a PNA monomer functionalized to incorporate a cholic acid functionality linked via a pentylamino linking group to the hydroxyl group of the serine portion of the PNA

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<222> (9)

<223> a pentyl N-phthaloyl oxymethyl group attached at the C-1 position of the 2-aminoethyl portion of the designated monomer in the oligomer

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<222> (9)

<223> a pentyl-N-phthaloyl oxymethyl group attached at the serine O- portion of the designated monomer in the oligomer

<220>

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<222> (18)

<223> a pentyl-N-phthaloyl oxymethyl group attached at the serine O- portion of the designated monomer in the oligomer

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<222> (9)

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position with phenanthroline via a thiol linker of
the structure

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<223> a PNA monomer functionalized at the serine
O-position with phenanthroline via a thiol linker
of the structure

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designated monomer

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-O portion of the designated monomer

<220>
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<223> a pentyl N-phthaolyloxymethyl group at the serine
-O portion of the designated monomer

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to the C-1 position of the 2-aminoethyl portion of
the indicated monomer

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<221> misc_feature

<222> (9)

<223> a 9-acridinyl group attached via a linking moiety
to the serine O- position on the designated
monomers in the oligomer

<220>

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<222> (18)

<223> a 9-acridinyl group attached via a linking moiety
to the serine O- position on the designated
monomers in the oligomer

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<221> misc_feature

<222> (9)

<223> a 2-porphyrin group tethered to the C-1 position
of the 2-aminoethyl portion of the designated PNA
oligomer

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ctgtctccat cctcttcact

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<210> 87

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<220>

<223> Description of Artificial Sequence: Novel Sequence

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<221> misc_feature

<222> (9)

<223> a photonuclease/intercalator ligand attached with
a tether to the C-1 position of the 2-aminoethyl
portion of the designated monomer in the oligomer

<400> 87

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<210> 88

<211> 20

<212> DNA

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<222> (9)

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a tether to the serine O- position of the
designated monomers in the oligomer

<220>

<221> misc_feature

<222> (18)

<223> a photonuclease/intercalator ligand attached with
a tether to the serine O- position of the
designated monomers in the oligomer

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ctgtctccat cctcttcact

20

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<222> (9)

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designated monomer in the oligomer

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<223> cholesterol attached via a tether to the C-1 position of the 2-aminoethyl portion of the designated monomer in the oligomer

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<223> a cholesterol attached via a tether to the serine O-position of the designated monomers in the oligomer

<220>

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<222> (18)

<223> a cholesterol attached via a tether to the serine O-position of the designated monomers in the oligomer

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<210> 133
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<222> (20)

<223> the incorporation of a monomeric unit containing a
protected thiol functionality

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<211> 10

<212> DNA

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<222> (10)..(11)

<223> Lysine, AHA, Lysine, AHA, Lysine linkage

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16

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15

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16

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16

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